

Run ID (run length: years)	SST	Land conditions	CO <sub>2</sub> (ppmv)	Plant physiology	Solar constant (W m <sup>-2</sup> )
Free land simulations					
(Sect. 2.2.1)					
A (30)	A	FREE	346	ON	1365
A4K (30)	A4K (i.e. AMIP+4K)	FREE	346	ON	1365
A4x (30)	A	FREE	1384	ON	1365
Arad4x (30)	A	FREE	1384	OFF	1365
Asc (30)	A	FREE	346	ON	1410.7
Prescribed land simulations					
(Sect. 2.2.3)					
A <sub>PL</sub> (29)	A	A	346	ON	1365
A4K <sub>PL4K</sub> (29)	A4K	A4K	346	ON	1365
A4x <sub>PL4x</sub> (29)	A	A4x	1384	ON	1365
Arad4x <sub>PLrad4x</sub> (29)	A	Arad4x	1384	OFF	1365
Asc <sub>PLsc</sub> (29)	A	Asc	346	ON	1410.7
Single forcing experiments					
(Sect. 2.2.4)					
A4K <sub>PL</sub> (29)	A4K	A	346	ON	1365
A <sub>PL4K</sub> (29)	A	A4K	346	ON	1365
A4x <sub>PL</sub> (29)	A	A	1384	ON	1365
A <sub>PL4x</sub> (29)	A	A4x	346	ON	1365
Arad4x <sub>PL</sub> (29)	A	A	1384	OFF	1365
A <sub>PLrad4x</sub> (29)	A	Arad4x	346	OFF	1365
Asc <sub>PL</sub> (29)	A	A	346	ON	1410.7
A <sub>PLsc</sub> (29)	A	Asc	346	ON	1365
Uniform surface temperature experiments (Sect. 2.2.5)					
A4K <sub>PLU4K</sub> (29)	A4K	A+4K	346	ON	1365
A <sub>PLU4K</sub> (29)	A	A+4K	346	ON	1365